

Appl. No. 10/659,799
Supplemental Prelim Amendment
Date filed 06/18/04

IN THE DRAWINGS

Applicant has amended Figure 12 to replace one instance of the reference number "1202" with the reference number --1210--.

Attached as Appendix I is one clean drawing sheet including the amended Figure 12.

Attached as Appendix II is one annotated drawing sheet to show the amendment made to Figure 12.

Attachments: Appendix I 1 Clean Drawing Sheets
Appendix II 1 Annotated Drawing Sheets

IN THE SPECIFICATION

Please amend the specification as follows:

Page 1, line 27, please replace the paragraph that begins thereat with the following paragraph:

"Figure 4C is a magnified view of a portion of the patterned roller of Figure 4[[A]]B."

Page 2, line 6, please replace the paragraph that begins thereat with the following paragraph:

"Figures [8A-8B] 8A-8D are views of a portion of a reflective film having full corner cubes to reflect incident light."

Page 2, line 14, please replace the paragraph that begins thereat, with the following paragraph:

"Figure 11 is a front view of a patterned ~~roller~~ roll assembly including the patterned roller."

Page 9, line 14, please replace the paragraph that begins thereat with the following paragraph:

"Referring now to Figure 3, a magnified view of a portion of Figure 2 is illustrated. Each of the one or more patterned shims 114 includes a subpattern 300 around its outer edge. In the case of one patterned shim 114, the subpattern 300 of the one patterned shim 114 may be the overall pattern if no spacer

shim 214 is used to form part of the overall pattern. Each of the subpatterns 300 of each patterned shim 114 may be similar or unique in order to complete the overall cylindrical pattern of the patterned roller which is rolled into the surface of the reflective film 102. The subpattern 300 may alternate between odd and even patterned shims 114. The subpattern 300 of each patterned shim 114 may be the same but the subpattern may be slightly offset from one patterned shim 114 to the next patterned shim on the patterned roller [100] 100A. The overall cylindrical pattern of the patterned roller [100] 100A may be readily changed by replacing the patterned shims 114 and any spacer shims with a different configuration of patterned shims and spacer shims."

Page 10, line 10, please replace the paragraph that begins thereat with the following paragraph:

"Each of the patterned shims includes a thickness 302 which may vary depending on the subpattern selected for a given patterned shim. In comparison, the thickness of the spacer shims 214 is substantially small. For example, in one embodiment the thickness of the spacer shims is twenty five percent of the thickness of the patterned shims. However, the spacer shims 214 do form their own subpattern within the overall pattern. In one case, the spacer shims 214 may form a groove or a line in a surface of the film. While the thickness of the spacer shims 214 are illustrated as being substantially small or nil in Figure 3, they may be provided with a more substantial thickness to further define a subpattern within the ~~over-all~~ overall pattern."

Page 11, line 14, please replace the paragraph that begins thereat with the following paragraph:

"Referring now to Figure 4B, all of the patterned shims 114' and/or spacer shims 214' are assembled together on the patterned roller 100B to form a cylindrical pattern 400. Due to the micromachined surfaces in the one or more patterned shims 214', details of the cylindrical pattern 400 are not illustrated in Figure 4B ~~and it may appear to be all black.~~"

Page 11, line 30, please replace the paragraph that begins thereat with the following paragraph:

"The subpattern 300 may be unique to each shim [114] 114' within the overall cylindrical pattern 400. That is, no two patterned shims 114' may be alike. Alternatively, a set of patterned shims [114] 114' may each be unique within the set, with the set of patterned shims [114] 114' being repeated across the overall cylindrical pattern 400. In yet another embodiment, each pattern shim 114' may have the same identical subpattern 300 to form some overall cylindrical pattern 400. In this manner, the cylindrical pattern 400 is easily adaptable to form a pattern in a surface of a material."

Page 13, line 23, please replace the paragraph that begins thereat with the following paragraph:

"The spacer shims [214] 214' and the patterned shims 114' assemble onto the center cylindrical sleeve 120' with the guide tabs 518 of each being aligned with the guide slot 418."

Page 16, line 3, please replace the paragraph that begins thereat with the following paragraph:

"Within each column, each corner cube 800 reverses orientation from the next down the respective column. Each corner cube 800 along a row, (i.e., across columns), has its orientation aligned with the next. For example, in one row the corner cubes 800 are aligned with the tail on the left side and the head on the right side of the reflective film. In the next row adjacent thereto, the corner cubes 800 are aligned with the head on the left side and the tail on the right side of the reflective film [102] 102'."

Page 17, line 23, please replace the paragraph that begins thereat with the following paragraph:

"Figure 9A further illustrates that one or more layers of other materials may be laminated on either or both top and bottom of the reflective layer 102'. The one or more layers [901A-901N] 901A-901M may be laminated together with the reflective layer 102' on a first surface. The one or more layers 902A-902N may be laminated together with the reflective layer 102' on a second surface opposite the first surface."

Page 20, line 21, please replace the paragraph that begins thereat with the following paragraph:

"The patterned roller stack 1020 includes a first roller 1022, the patterned roller 100, and a second roller 1024. The patterned roller 100 is driven by a motor to pull the extruded

film into the patterned roller stack 1020 for patterning. A first surface of the extruded film makes intimate contact with the patterned roller 100 so that the cylindrical pattern of the roller 100 may be imprinted or cut into the first surface. The first roller 1022 at the top of the stack presses against a second surface of the extruded film to squeeze the film between the patterned roller 100 and the first roller 1022. The first roller 1022 can also partially cool the extruded film. Thus, the first roller 1022 may also be referred to as a top chill roller. The second roller 1024 at the bottom of the stack may be driven by a motor to pull the reflective film out through the patterned roller stack 1020. The second roller 1024 can also cool the extruded reflective film into a solid state. Thus, the second roller 1024 may also be referred to as a bottom chill roller. The patterned roller stack [1022] 1020 may further include a chassis, stand, or frame 1026 to which the first roller 1022, the patterned roller 100, and the second roller 1024 may be rotatably coupled. The frame 1026 supports the positions of the rollers therein and may move one or more rollers together in order to squeeze and apply pressure to the extruded film."

Page 22, line 12, please replace the paragraph that begins thereat with the following paragraph:

"The reflective layer 102 wraps around a portion of the second roller 1024 of the patterned roller stack [1026] 1020 to re-orient the film 102. The second roller 1024 further provide a means for added cooling of the sheet of material into a solid state from a soft state. The sheet of material output from the

patterned roller stack 1020 is then coupled towards the wind-up roller 1034."

Page 24, line 3, please replace the paragraph that begins thereat with the following paragraph:

"Referring now to Figure 12, a roll 1002 including the reflective sheeting [120] 102 is illustrated. As previously discussed other layers of materials may be laminated around the reflective sheeting 102 to form a reflective laminate 1200. The reflective laminate includes the reflective sheeting 102 and one or more other layers of other materials, such as layers 1201-1204 for example. As previously discussed and illustrated in Figures 9A-9B, the one or more layers of other materials may be sized differently and located on either side of the reflective sheeting."

Page 24, line 12, please replace the paragraph that begins thereat with the following paragraph:

"Thus, the roll 1002 may be a roll of reflective sheeting 102 alone, without other layers. Alternatively the roll 1002 may be a roll of a reflective laminate 1200 including other layers laminated together with the reflective sheeting 102. The roll 1002 may further include a center cylinder core 1210 upon which the reflective sheeting 102 or reflective laminate 1200 may be spiral wound. The center cylinder core 1210 may be a spool including edges to align the reflective sheeting 102 or reflective laminate 1200 as its wound around by the [wide] wind up roller."